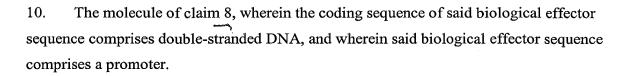
## **CLAIMS**

SUP

A nucleic acid molecule comprising:

a first nucleic acid sequence comprising an aptamer covalently linked to a second nucleic acid sequence comprising a biological effector sequence.

- 2. A nucleic acid molecule comprising:
- a first nucleic acid sequence comprising an aptamer linked via Watson-Crick base pairing to a second nucleic acid sequence comprising a biological effector sequence.
- 3. The molecule of claim 1 or 2, further comprising a third nucleic acid sequence which is an aptamer that is covalently linked to said nucleic acid molecule.
- 4. The molecule of claim 1 or 2, further comprising a third nucleic acid sequence which is an aptamer that is linked via Watson-Crick base pairing to said nucleic acid molecule.
- 5. The molecule of claim 3 wherein said third nucleic acid sequence comprises an aptamer that is different from said first nucleic acid comprising an aptamer.
- 6. The molecule of claim 4 wherein said third nucleic acid sequence comprises an aptamer that is different from said first nucleic acid sequence comprises an aptamer.
- 7. The molecule of claim 1 or 2, comprising DNA and RNA.
- 8. The molecule of claim 1 or 2, wherein said biological effector sequence encodes a polypeptide or polynucleotide.
- 9. The molecule of claim 1 or 2, wherein said biological effector sequence comprises a messenger RNA.



- 11. The molecule of claim 1 or 2, wherein said biological effector sequence comprises an antisense sequence.
- 12. The molecule of claim 1 or 2, wherein said biological effector sequence comprises a nucleic acid enzyme.
- 13. A nucleic acid molecule comprising a template for the assembly of the molecule of claim 1.
- 14. A cloning vector comprising the molecule of claim 1.
- 15. A cloning vector comprising the molecule of claim 11.
- 16. A composition comprising the molecule of claim 1 or 2 and a biologically acceptable carrier.
- 17. A composition comprising an admixture of a molecule of claim 1 or 2 and a cell that bears a target molecule for said aptamer.
- 18. A cell transfected with a nucleic acid molecule, wherein the nucleic acid molecule is chosen from the group: a molecule of claim 1 or 2, a molecule of claim 13, a vector of claim 14, and a vector of claim 15.
- 19. A method of introducing a biological effector sequence into a cell comprising contacting the molecule of claim 1 or 2 with a host cell.
- 20. A method of introducing a biological effector sequence into a cell using the molecule of claim 1 or 2, comprising administering said molecule to an organism.
- 21. The method of claim 20, which comprises administering to an organism a composition of claim 16.

22. A method of introducing a biological effector sequence into an organism, comprising:

introducing a biological effector sequence into a cell by contacting the molecule of claim 1 or 2 with a host cell, and administering said cell to an organism.